BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : CONSTRUCTION OF CC ROADS AND DRAINS 9th MAIN ROAD FROM 3rd CROSS TO DEAD END AT ATTUR LAYOUT IN WARD NO.03

								Estimate Cost Rs.	50.00	Lakhs
Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
1	KSRB 2-1.1 : Earthwork in surface excavation in **ordinary soil** for **levelling and lowering** the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1 (a) / 2.3.1 (P.5/I.2.1)									
	for Road	Cum								
	Cross Road		1	240.00	5.00	0.425	510.00			
			1	100.00	4.00	0.40	160.00			
			1	88.00	4.00	0.30	105.60			
							775.60	166.42	**129075.35**	
	Basic Rate	157.00								
	Area Weightage @ 6%	9.42								
	Total	**166.42**								
2	KSRB 2-2.1 : **Earth work excavation** for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3)									
	Chikkadinne	Cum								
	2nd 'A' Main Road		2	60.00	1.00	0.90	108.00			
							108.00	200.34	**21636.72**	
	Basic Rate	189.00								
	Area Weightage @ 6%	11.34								
	Total	200.34								
3	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1)									
		Cum								
				Qty Vide Item No.1+2			**883.60**	100.00	**88360.00**	
	Average Weight of Earth 1.28 Tonne/Km									
	Basic Rate Lead Charges for 10.00 Kms (2.50X1.28X10.00)	32.00								
	Add loading and unloading Item No 17.1)	68.00								
	Total	**100.00**								

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
4	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material (P.No.155 It.No.20.4.2)								
		Cum							
	Attur Layout Cross Road		1	240.00	5.00	0.15	180.00		
			1	100.00	4.00	0.15	60.00		
							240.00	1665.26	**399662.40**
	Basic Rate	1571.00							
	Area Weightage @ 6%	94.26							
	Total	**1665.26**							
5	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.3)								
		Cum							
	Cross Road		1	240.00	5.00	0.15	180.00		
			1	100.00	4.00	0.15	60.00		
			1	88.00	4.00	0.15	52.80		
	Chikkadinne, 2nd 'A' Main Road		2	60.00	1.00	0.15	18.00		
							310.80	5159.02	**1603423.42**
	Basic Rate	4867.00							
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							
6	KSRB 4.9.2:Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3-do-TMT Bars Fe 500 P.17/It.No.4.46.2 (rates effects from 01-07-2017)							-	
	Chikkadinne, 2nd 'A' Main Road	tonne	No.of Bars	Width/Length	Rmtr	Kg/Rmtr	Total in Kg		
	12mm dia main bar spacing at 150mm c/c	2	400	1.95	1560.00	0.888	1385.28		
	10mm dia dist bar spacing at 150mm c/c	2	13	60.00	1560.00	0.617	962.52		
						in Kg	2347.80		
						in Qtl	23.4780		
						in tonne	**2.3478**	64243.42	**150830.70**
	Basic Rate	60607.00							
	Area Weightage @ 6%	3636.42							
	Total	**64243.42**							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
7	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping e... and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.21 (P.15 / I.4.31)								
	Chikkadinne	Sqm							
	2nd 'A' Main Road		2x4	60.00		0.60	288.00		
							288.00	310.58	**89447.04**
	Basic Rate	293.00							
	Area Weightage @ 6%	17.58							
	Total	**310.58**							
8	Providing & laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs , with 20mm and down size graded granite metal,coarseaggregated @ 0.69cum ,and fine aggregated @ 0.460cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed -2008 machine mixed concrete laid in layers not exceeding 15 crns thick, vibrated for all works in foundation for footings,pedestals,retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts,struts, buttresses, bed blocks, anchor blocks, plinths etc.,including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.specifications No.KBS 4.1,4.6 (P.No.13/ I.No.4.11)								
	Chikkadinne, 2nd 'A' Main Road	Cum							
	bed		2	60.00	1.00	0.15	18.00		
	Side wall		4	60.00	0.15	0.60	21.60		
							39.60	6371.66	**252317.74**
	Basic Rate	6011.00							
	Area Weightage @ 6%	360.66							
	Total	**6371.66**							
9	Providing and fixing **RCC precast Slabs of 0.10 m thick of CC 1:2:4 with 20 mm** and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
	Chikkadinne	Sqm							
	2nd 'A' Main Road		2	60.00	0.90		108.00		
							108.00	2100.00	**226800.00**
	Data Rate	**2100.00**							
10	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete **(RMC)** M20 for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, for raft foundation, column footing, main and secondary beams with all lead and lifts etc.,complete (exclusive of cost of steel and fabrication charges.) Page No.18 / Item No. 4.48)								
	for road	Cum							
	Cross Road		1	240.00	5.00	0.15	180.00		
			1	100.00	4.00	0.15	60.00		
			1	88.00	4.00	0.15	52.80		
							292.80	6231.74	**1824653.47**

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Basic Rate	5879.00							
	Area Weightage @ 6%	352.74							
	Total	**6231.74**							
III	**Vaccum De-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift (P.177/ I.22.7)								
	for road	Sqm							
	Cross Road		1	240.00	5.00		1200.00		
			1	100.00	4.00		400.00		
			1	88.00	4.00		352.00		
							1952.00	95.40	**186220.80**
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	**95.40**							
IV	Providing Groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine generator and HOM of machinery including cost of blade, coolant etc., including cleaning aof groove & providing sand and hot bitumen fillars and filler metal etc.,including cost of conveyance of all materials, labour,lead and lift charges and all the other incidental charges as per drawing and as per specifications, MORTH specification. (P.178/ I.22.8)								
	for road	m							
			28	5.00			140.00		
			10	4.00			40.00		
			10	4.00			40.00		
							220.00	121.90	**26818.00**
	Basic Rate	115.00							
	Area Weightage @ 6%	6.90							
	Total	**121.90**							
VII	Miscellaneous and unforeseen charges								**754.00**
							Grand Total Amount		**5000000.00**
	(Rupees Fifty Lakhs Only)								

CERTIFICATE

1) The site has been inspected and the work is found to be necessary.
2) The rates adopted are as per PW,P IWTD SR of 2016-17 and data rate of Bangalore Circle.
3) The provisions were made in this estimate are necessary and adequate.
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.

Assistant Engineer
Ward No.03

Assistant Executive Engineer
Yelahanka New Town Sub-Division
B.B.M.P

Asst. Executive Engr
Project Division
Yelahanka Zone
Bangalore

Executive Engineer
Yelahanka Division
B.B.M.P

Executive Engineer
Project Division
Yelahanka Zone
Bangalore
13/11/17

Administrative Approval
Accorded For Rs.50.00 lakhs
Head of A/C P-1878
CER NO : 62/17-18 Dt: 8-11-17

E.E. (Project)

Technical Sanction
Accorded For 50.00 lakh Rs
Head of A/C P 1878
CER NO : 364 Dt: 10/11/17

TA CE (YNK)